

$$\frac{1}{\cos \alpha} \rightarrow \frac{\frac{1}{\cos \alpha} - \tan \alpha}{\frac{1}{\cos \alpha} + \tan \alpha} = K \Rightarrow K \frac{1}{\cos \alpha} + K \tan \alpha = \frac{1}{\cos \alpha} - \tan \alpha$$

-1

$$\omega \tan \alpha = -\mu \frac{1}{\cos \alpha} \quad \text{بجانب}$$

$$K \tan \alpha = 9 (1 + \tan^2 \alpha) \Rightarrow 19 \tan^2 \alpha = 9 \frac{(\mu \cos \alpha)}{\tan \alpha} \Rightarrow \tan \alpha = \frac{\mu}{K}$$

$$\tan \alpha = \frac{\mu \tan(\frac{\alpha}{r})}{1 - \tan^2(\frac{\alpha}{r})} \xrightarrow{\text{طبقه اول ضرب}} \frac{\tan(\frac{\alpha}{r}) \frac{\mu \tan \alpha}{1 - \tan^2 \alpha}}{\tan(\frac{\alpha}{r})} = \mu - \mu \tan^2(\frac{\alpha}{r}) = 1 \tan(\frac{\alpha}{r}) \Rightarrow$$

$$\mu \tan^2(\frac{\alpha}{r}) + 1 \tan(\frac{\alpha}{r}) - \mu = 0 \xrightarrow{\text{عوامل}} (\tan(\frac{\alpha}{r}) + 9) (\tan(\frac{\alpha}{r}) - 1) = 0$$

$\tan(\frac{\alpha}{r}) = -9 = \text{ممنوع}$

$\tan(\frac{\alpha}{r}) = 1$

$$\frac{\sin \theta}{1 - \cos \theta} + \frac{1 - \cos \theta}{\sin \theta} = \frac{\mu \sin^2 \theta}{\sin \theta (1 - \cos \theta)} = \frac{\mu \sin \theta}{1 - \cos \theta} = \frac{\mu \sin(\frac{\theta}{r}) \cos(\frac{\theta}{r})}{\sin^2(\frac{\theta}{r})} = \mu \frac{\cos(\frac{\theta}{r})}{\sin(\frac{\theta}{r})}$$

-9

$$\Rightarrow \mu \cot(\frac{\theta}{r}) = K \cot(\frac{\theta}{r}) \rightarrow K = \mu$$

$$\cos \alpha = -\sqrt{1 - \frac{\mu}{100}} = -\frac{\sqrt{91}}{10}$$

-10

$$\cos(\frac{11\pi}{K} + \alpha) = \underbrace{\cos \frac{11\pi}{K}}_{-\frac{\sqrt{K}}{r}} \underbrace{\cos \alpha}_{-\frac{\sqrt{91}}{10}} - \underbrace{\sin \frac{11\pi}{K}}_{\frac{\sqrt{K}}{r}} \underbrace{\sin \alpha}_{\frac{\sqrt{r}}{10}} = \frac{1K}{r0} - \frac{1}{10} = \frac{9}{10} = \frac{\mu}{\omega}$$